

## Course information for minor program in Computational Science

| Course Title and Number  | Institution  | Instructor   | Quarter or Semester                         | Distance Learning                     | Credit Hours | Link                              |
|--|--|--|---|---------------------------------------|--------------|-----------------------------------|
| CS 399 Selected Topics in Computational Science Programming and Algorithms | <b>Wright State University</b> / Computer Science  | Dr. Ronald Taylor<br><a href="mailto:ronald.taylor@wright.edu">ronald.taylor@wright.edu</a><br>(937) 775-5122  | Fall quarter 2007                           | Yes<br><a href="#">Course Website</a> | 4            | <a href="#">Academic calendar</a> |
|  | Prerequisites: Differential and integral calculus, matrix or linear algebra, and at least one quarter of a physical or biological science. Permission of Instructor may also be obtained on a case by case basis when some prerequisite deficiencies exist |  |   |                                       |              |                                   |
| PHY 297-01 Special Topics Introduction to Modeling and Simulation          | <b>Sinclair Community College</b> / Physics  | Art Ross & Bob Chaney<br><a href="mailto:art.ross@sinclair.edu">art.ross@sinclair.edu</a><br>(937) 512-2236    | Winter quarter 2008                         | No                                    | 4            | <a href="#">Academic calendar</a> |
|  | Prerequisites: None  |  |   |                                       |              |                                   |
| PHY 220-01 Introduction to Computational Physics                           | <b>Sinclair Community College</b> / Physics  | Art Ross <a href="mailto:art.ross@sinclair.edu">art.ross@sinclair.edu</a><br>(937) 512-2236                    | Spring quarter 2008                         | No<br><a href="#">Course Info</a>     | 3            | <a href="#">Academic calendar</a> |
|  | Prerequisites: PHY 201 (General Physics I) and MAT 201 (Calculus & Analytic Geometry I) or equivalent  |  |   |                                       |              |                                   |
| CSAC 245 Introduction to Modeling and Simulation                           | <b>Capital University</b> / Mathematics, Computer Science, and Physics   | John Philips & Pat Shields<br><a href="mailto:jphilips@capital.edu">jphilips@capital.edu</a><br>(614) 236-6643 | Fall semester 2007 and Spring semester 2008 | Yes<br><a href="#">Course Info</a>    | 3            | <a href="#">Academic calendar</a> |
|  | Prerequisites: Incoming students should have some calculus background. Even a high school calculus class is fine.  |  |   |                                       |              |                                   |
| BTEC 40220 Bioinformatics,<br><br>BSCI 40195 ST: Bioinformatics            | <b>Kent State University</b> / Biological Sciences   | Helen Piontkivska<br><a href="mailto:opiontki@kent.edu">opiontki@kent.edu</a><br>330-672-3620                  | Fall semester 2007                          | Yes<br><a href="#">Course Info</a>    | 3            | <a href="#">Academic calendar</a> |
|  | Prerequisites: Eighteen hours of biology and permission of instructor.   |  |   |                                       |              |                                   |

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| CS&E 202 Introduction to Programming and Algorithms for Engineers and Scientists | <b>The Ohio State University</b> / Computer Science & Engineering  |   | Autumn quarter 2007, Winter quarter 2008 and Spring quarter 2008 | No <a href="#">Course Info</a>  | 4 | <a href="#">Academic calendar</a> |
|  | Prerequisites: Math 151 (Calculus and Analytic Geometry I)   |   |  |                                 |   |                                   |
| Chem 644 Computational Chemistry   | <b>The Ohio State University</b> / Chemistry   | Christopher Hadad<br><a href="mailto:hadad.1@osu.edu">hadad.1@osu.edu</a><br>(614) 292-1204                   | Spring quarter 2008  | No                              | 3 | <a href="#">Academic calendar</a> |
|  | Prerequisites: None  |   |  |                                 |   |                                   |
| COMP/MATH 260 Computational Models and Methods                                   | <b>Wittenberg University</b> / Computer Science  | James Noyes<br><a href="mailto:jnoyes@wittenberg.edu">jnoyes@wittenberg.edu</a><br>(937) 327-7858             | Spring semester 2008   | No <a href="#">Course Info</a>  | 5 | <a href="#">Academic calendar</a> |
|  | Prerequisites: MATH 201 (Calculus I), COMP 150 (Computer Programming I) or equivalent with permission of the instructor. |   |  |                                 |   |                                   |
| CPS3465 Parallel Programming   | <b>Central State University</b> / Mathematics and Computer Science   | Robert Marcus   | Spring semester 2008   | No                              | 4 | <a href="#">Academic calendar</a> |
|  | Prerequisites: None  |   |  |                                 |   |                                   |
| MATH 299 Differential Equations and Discrete Dynamical Systems                   | <b>Columbus State Community College</b> / Mathematics  | Gerald Mueller<br><a href="mailto:gmueller@csc.edu">gmueller@csc.edu</a><br>(614) 287-5312                    | Summer quarter 2008  | No                              | 6 | <a href="#">Academic calendar</a> |
|  | Prerequisites: MATH 153 (Calculus and Analytic Geometry III) or equivalent (one year of calculus)                        |   |  |                                 |   |                                   |
| Computer Science 668 - Parallel Computing  | <b>University of Cincinnati</b> / Computer Science   | Prof. Fred Annexstein<br><a href="mailto:fred.annexstein@uc.edu">fred.annexstein@uc.edu</a><br>(513) 556-1807 | Fall quarter 2007  | Yes <a href="#">Course Info</a> | 3 | <a href="#">Academic Calendar</a> |
|  | Prerequisites: A standard programming sequence such as CS1, CS2, Data Structures   |   |  |                                 |   |                                   |

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| 15PHYS410<br>Computational Physics                | <b>University of Cincinnati</b> /<br>Physics | Instructor:<br>Richard Gass<br><a href="mailto:richard.gass@uc.edu">richard.gass@uc.edu</a><br>(513) 661-0491 | Spring quarter<br>2008 | Yes | 3 | <a href="#">Academic<br/>calendar</a> |
| Prerequisites: 15MATH273 (Differential Equations) |  |   |                        |     |   |                                       |